

Bound Reports 1720

Aberdeen Phase III at Kings Ridge

Stormwater Summary

Aberdeen Phase III is located in Section 4, Township 23S, and Range 26E of the Kings Ridge North subdivision. This phase is part of the previously approved drainage basins (13, 14, 15, & 16). Basin 13 consists of 3.77 acres, which includes 3.77 acres of Aberdeen Phase III. Basin 14 consists of 5.40 acres, which includes 5.40 acres of Aberdeen Phase III. Basin 15 consists of 10.83 acres, which includes 1.24 acres of Aberdeen Phase III. Basin 16 consists of 38.30 acres, which includes 2.66 acres of Aberdeen Phase III. These basins were last permitted by SJRWMD under Kings Ridge North Clubhouse (Permit # 4-069-19411-13) and Kings Ridge North (Permit # 4-069-0326MA-ERP). This Project will consist of 59 lots, roadways and connections to the existing stormwater system.

Basin 13:

Aberdeen Phase III	Acres 3.77	% 100 ·	CN 58.6	Product 58.6
Total	3.77	100		58.6

Aberdeen Phase III Curve Number Calculation

Homes/Driveways 17*3200/43560 = 1.25 Ac.

Impervious area = 1.25 Ac.Pervious area = 2.52 Ac.

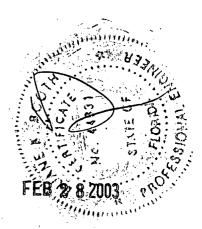
CN = ((0.98*1.25)+(0.39*2.52))/3.77= 58.6 RECEIVED

MAR 0 3 2003

PDS ALTAMONTE SVC. CTR.

Since the curve number of 58.6 is less than the previously approved 60 we are still in compliance.

19411-16



Basin 14:

Aberdeen Phase III	Acres 5.40	% 100	CN 59.5	Product 59.5
Total	5.40	100		59.5

Aberdeen Phase III Curve Number Calculation

Homes/Driveways	17*3200/43560	= 1.25 Ac.
Roads	25*1100/43560	= 0.63 Ac.

$$CN = ((0.98*1.88)+(0.39*3.52))/5.40 = 59.5$$

Since the curve number of 59.5 is less than the previously approved 63 we are still in compliance.

Basin 15:

	Acres	%	CN	Product	
Devonshire at Kings Ridge	9.59	89	50.6	45.03	
Aberdeen Phase III	1.24	11	67.1	7.38	
Total	10.83	100		52.41	

Aberdeen Phase III Curve Number Calculation

Homes/Driveways		,	8*3200/43560	= 0.59 Ac.
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Impervious area
$$= 0.59$$
 Ac.
Pervious area $= 0.65$ Ac.

$$CN = ((0.98*0.59)+(0.39*0.65))/10.83 = 67.1$$

Since the curve number of 52.41 is less than the previously approved 53 we are still in compliance.

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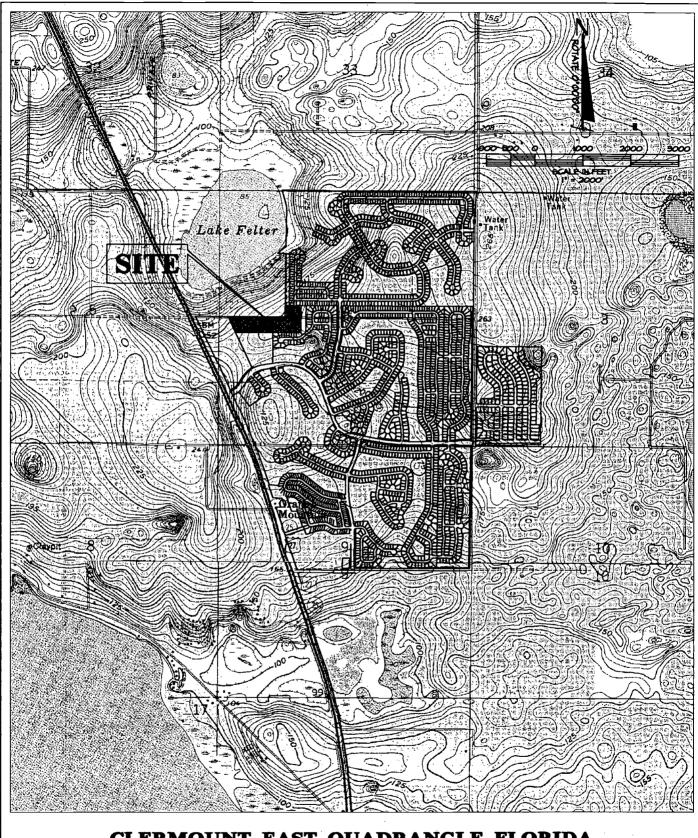
Aberdeen Phase II Aberdeen Phase III	Acres 35.64 2.66	% 93 7	54.8 67.2	Froduct 51.0 4.70	
Total	38.30	100	•	55.7	

Aberdeen Phase III Curve Number Calculation

Homes/Driveways	14*3200/43560	= 1.03 Ac.
Roads	25*421/43560	= 0.24 Ac.

$$CN = ((0.98*1.27)+(0.39*1.39))/2.66 = 67.2$$

Since the curve number of 55.7 is less than the previously approved 56 we are still in compliance.

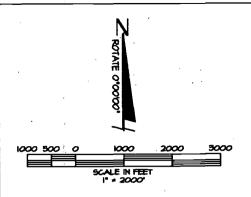


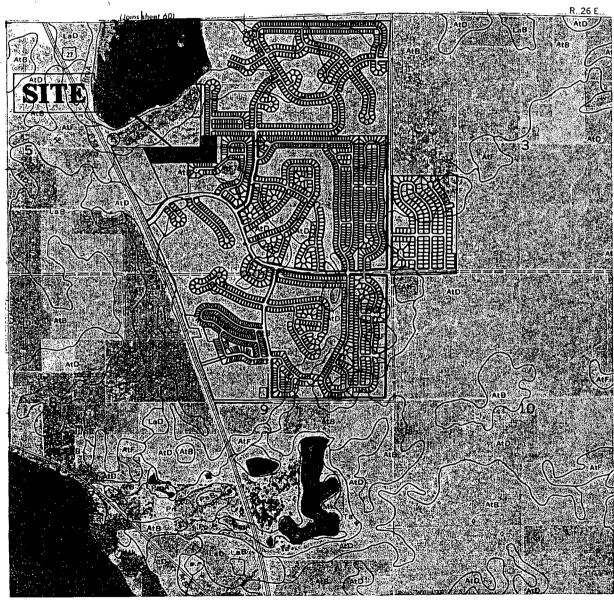
CLERMOUNT EAST QUADRANGLE FLORIDA TOWNSHIP 23 S, RANGE 26 E, SECTION 4



ABERDEEN PHASE III AT KINGS RIDGE USGS Map

DATE: FEB. 2003 FIGURE 1-1 JOB NO. 441216141





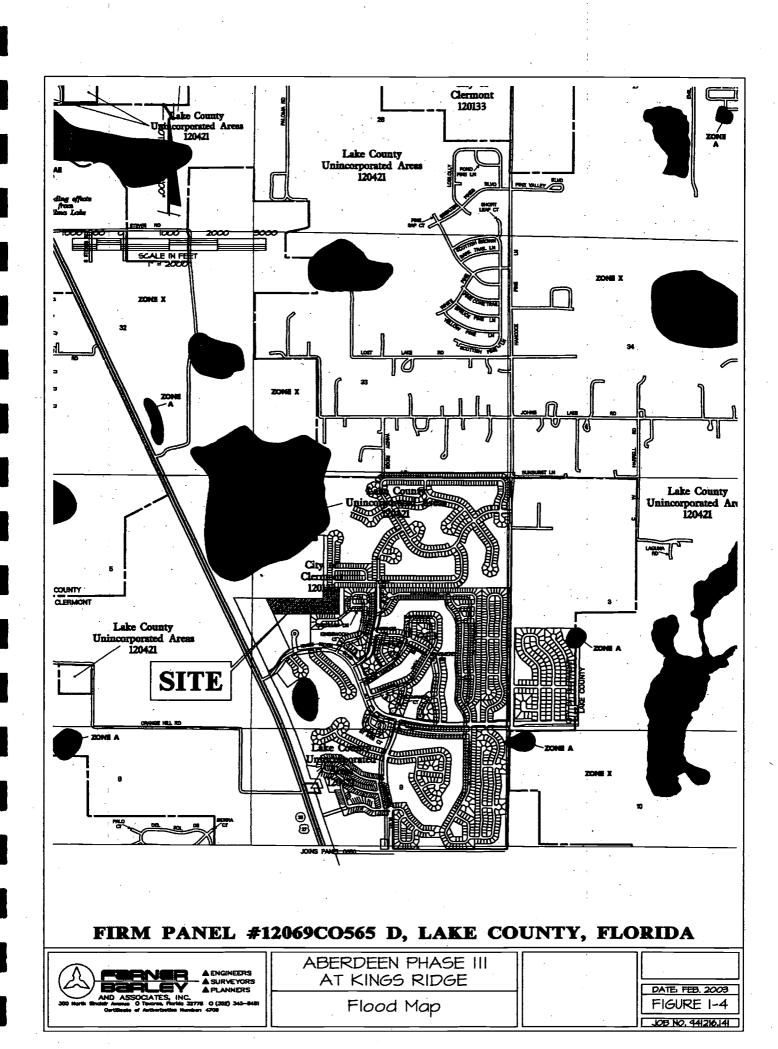
LAKE COUNTY, FLORIDA NO. 64



ABERDEEN PHASE III AT KINGS RIDGE

Soils Map

DATE FEB. 2009 FIGURE 1-3 JOB NO. 441216.141



ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
EXISTING PERMITS
KINGS RIDGE NORTH CLUBHOUSE
(PERMIT #4-069-19411-13)
KINGS RIDGE NORTH
(PERMIT #4-069-0326M9-ERP)

BASINS 13, 14, 15, AND 16



POST OFFICE BOX 1429

PALATKA, FLORIDA 32178-1429

TELEPHONE 904-329-4500 TDD 904-329-4450 SUNCOM 904-880-4500 TDD SUNCOM 880-4450

FAX (Executive) 329-4125 (Legal) 329-4485

Suhe 102

(Permitting) 329-4315

(Administration/Finance) S29-4508

701 (Careants) and -122

618 E. South Street

TOD 407-897-5960

Oriendo, Florida 32801 407-897-4300 SERVICE CENTERS -

Jacksonville, Florida 32258 904-730-6270

TOO 804-448-7900

PERMITTING: 305 East Drive OPERATIONS: 2133 N. Wickham Road

Melbourna, Florida 32904 407-984-4940 TDD 407-722-5368 2133 N. Wickham Road Maibourne, Florida 32935-8108 407-752-3100 TDD 407-752-3102

May 9, 2001

Lennar Land Partners 1110 Douglas Ave Altamonte Springs, FL 32714

SUBJECT: Permit Number 40-069-19411-13

Kings Ridge North Clubhouse & Spa

Dear Sir/Madam:

Enclosed is your general permit as authorized by the staff of the St. Johns River Water Management District on May 9, 2001.

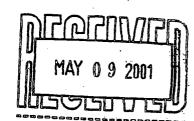
This permit is a legal document and should be kept with your other important documents. The attached MSSW/Stormwater As-Built Certification Form should be filled in and returned to the Palatka office within thirty days after the work is completed. By so doing, you will enable us to schedule a prompt inspection of the permitted activity.

In addition to the MSSW/Stormwater As-Built Certification Form, your permit also contains conditions which require submittal of additional information. All information submitted as compliance to permit conditions must be submitted to the Palatka office address.

Permit issuance does not relieve you from the responsibility of obtaining permits from any federal, state and/or local agencies asserting concurrent jurisdiction for this work.

Please be advised that the District has not published a notice in the newspaper advising the public that it is issuing a permit for this proposed project. Publication, using the District form, notifies members of the public (third parties) of their rights to challenge the issuance of the general permit. If proper notice is given by publication, third parties have a 21-day time limit on the time they have to file a petition opposing the issuance of the permit. If you do not publish, a party's right to challenge the issuance of the general permit extends for an indefinite period of time. If you wish to have certainty that the period for filing such a challenge is closed, then you may publish, at your own expense, such a notice in a newspaper of general circulation. A copy of the form of the notice and a list of newspapers of general circulation is attached for your use.

In the event you sell your property, the permit will be transferred to the new owner, if we are notified by you within thirty days of the sale and if you provide the information required by 40C-1.612, F.A.C. Please assist us in this matter so as to maintain a valid permit for the new property owner.



Thank you for your cooperation, and if this office can be of any further assistance to you, please do not hestitate to contact us.

Sincerely

Ansonia D-Cobb

Service Ctr Data Mgt Supervis
Division of Permit Data Services

Enclosures: Permit with As-built Certification Form

Notice of Rights

List of Newspapers for Publication

cc: District Permit File

Consultant: Farner, Barley and Associates, Inc.

350 N Sinclair Ave Tavares, FL 32778

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT Post Office Box 1429 Palatka, Florida 32178-1429

PERMIT NO. 40-069-19411-13

DATE ISSUED: May 9, 2001

PROJECT NAME: Kings Ridge North Clubhouse & Spa

A PERMIT AUTHORIZING:

modification to an existing surface water management system, called Kings Ridge, to authorize construction of the Kings Ridge North Clubhouse & Spa, a 10.59-acre project consisting of a clubhouse, pool & spa, and parking lot.

LOCATION:

Section(s): 4

Township(s): 23S

Range(s):

26E

Lake County

ISSUED TO:

Lennar Land Partners 1110 Douglas Ave Altamonte Springs, FL 32714

Permittee agrees to hold and save the St. Johns River Water Management District and its successors harmless from any and all damages, claims, or liabilities which may arise from permit issuance. Said application, including all plans and specifications attached thereto, is by reference made a part hereof.

This permit does not convey to permittee any property rights nor any rights of privileges other than those specified therein, nor relieve the permittee from complying with any law, regulation or requirement affecting the rights of other bodies or agencies. All structures and works installed by permittee hereunder shall remain the property of the permittee.

This permit may be revoked, modified or transferred at any time pursuant to the appropriate provisions of Chapter 373, Florida Statutes:

PERMIT IS CONDITIONED UPON:

See conditions on attached "Exhibit A", dated May 9, 2001

AUTHORIZED BY:

St. Johns River Water Management District

Department of Resource Management

Bv.

(Service Center Director - Orlando

David A Dewey

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"EXHIBIT A"

CONDITIONS FOR ISSUANCE OF PERMIT NUMBER 40-069-19411-13 LENNAR LAND PARTNERS DATED MAY 9, 2001

- 1. All activities shall be implemented as set forth in the plans, specifications and performance criteria as approved by this permit. Any deviation from the permitted activity and the conditions for undertaking that activity shall constitute a violation of this permit.
- 2. This permit or a copy thereof, complete with all conditions, attachments, exhibits, and modifications, shall be kept at the work site of the permitted activity. The complete permit shall be available for review at the work site upon request by District staff. The permittee shall require the contractor to review the complete permit prior to commencement of the activity authorized by this permit.
- 3. Activities approved by this permit shall be conducted in a manner which do not cause violations of state water quality standards.
- 4. Prior to and during construction, the permittee shall implement and maintain all erosion and sediment control measures (best management practices) required to retain sediment on-site and to prevent violations of state water quality standards. All practices must be in accordance with the guidelines and specifications in chapter 6 of the Florida Land Development Manual: A Guide to Sound Land and Water Management (Florida Department of Environmental Regulation 1988), which are incorporated by reference, unless a project specific erosion and sediment control plan is approved as part of the permit, in which case the practices must be in accordance with the plan. If site specific conditions require additional measures during any phase of construction or operation to prevent erosion or control sediment, beyond those specified in the erosion and sediment control plan, the permittee shall implement additional best management practices as necessary, in accordance with the specifications in chapter 6 of the Flonda Land Development Manual; A Guide to Sound Land and Water Management (Florida Department of Environmental 1988). The permittee shall correct any erosion or shoaling that causes adverse impacts to the water resources.
- 5. Stabilization measures shall be initiated for erosion and sediment control on disturbed areas as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 7 days after the construction activity in that portion of the site has temporarily or permanently ceased.
- 6. At least 48 hours prior to commencement of activity authorized by this permit, the permittee shall submit to the District a Construction Commencement Notice Form No.

40C-4.900(3) indicating the actual start date and the expected completion date.

- 7. When the duration of construction will exceed one year, the permittee shall submit construction status reports to the District on an annual basis utilizing an Annual Status Report Form No. 50C-4.900(4). These forms shall be submitted during June of each year.
- For those systems which will be operated or maintained by an entity which will require an 8. easement or deed restriction in order to provide that entity with the authority necessary to operate or maintain the system, such easement or deed restriction, together with any other final operation or maintenance documents as are required by subsections 7.1.1 through 7.1.4 of the Applicant's Handbook: Management and Storage of Surface Waters, must be submitted to the District for approval. Documents meeting the requirements set forth in these subsections of the Applicant's Handbook will be approved. Deed restrictions, easements and other operation and maintenance documents which require recordation either with the Secretary of State or the Clerk of the Circuit Court must be so recorded prior to lot or unit sales within the project served by the system, or upon completion of construction of the system, whichever occurs first. For those systems which are proposed to be maintained by county or municipal entities, final operation and maintenance documents must be received by the District when maintenance and operation of the system is accepted by the local governmental entity. Failure to submit the appropriate final documents referenced in this paragraph will result in the permittee remaining liable for carrying out maintenance and operation of the permitted system.
- 9. Each phase or independent portion of the permitted system must be completed in accordance with the permitted plans and permit conditions prior to the initiation of the permitted use of site infrastructure located within the area served by the portion or phase of the system. Each phase or independent portion of the system must be completed in accordance with the permitted plans and permit conditions prior to transfer of responsibility for operation and maintenance of that phase or portion of the system to local government or other responsible entity.
- 10. Within 30 days after completion of construction of the permitted system, or independent portion of the system, the permittee shall submit a written statement of completion and certification by a registered professional engineer or other appropriate individual as authorized by law, utilizing As Built Certification Form 40C-1.181(13) or 40C-1.181(14) supplied with this permit. When the completed system differs substantially from the permitted plans, any substantial deviations shall be noted and explained and two copies of as-built drawings submitted to the District. Submittal of the completed from shall serve to notify the District that the system is ready for inspection. The statement of completion and certification shall be based on on-site observation of construction

(conducted by the registered professional engineer, or other appropriate individual as authorized by law, or under his or her direct supervision) or review of as-built drawings for the purpose of determining if the work was completed in compliance with approved plans and specifications. As-built drawings shall be the permitted drawings revised to reflect any changes made during construction. Both the original and any revised specifications must be clearly shown. The plans must be clearly labeled as "as-built" or "record" drawing. All surveyed dimensions and elevations shall be certified by a registered surveyor. The following information, at a minimum, shall be verified on the as-built drawings:

- 1. Dimensions and elevations of all discharge structures including all weirs, slots, gates, pumps, pipes, and oil and grease skimmers;
- 2. Locations, dimensions, and elevations of all filter, exfiltration, or underdrain systems including cleanouts, pipes, connections to control structures, and points of discharge to the receiving waters;
- 3. Dimensions, elevations, contours, or cross-sections of all treatment storage areas sufficient to determine state-storage relationships of the storage area and the permanent pool depth and volume below the control elevation for normally wet systems, when appropriate;
- 4. Dimensions, elevations, contours, final grades, or cross-sections of the system to determine flow directions and conveyance of runoff to the treatment system;
- 5. Dimensions, elevations, contours, final grades, or cross-sections of all conveyance systems utilized to convey off-site runoff around the system;
- 6. Existing water elevation(s) and the date determined; and Elevation and location of benchmark(s) for the survey.
- 11. The operation phase of this permit shall not become effective until the permittee has complied with the requirements of general condition 9 above, the District determines the system to be in compliance with the permitted plans, and the entity approved by the District in accordance with subsections 7.1.1 through 7.1.4 of the Applicant's Handbook: Management and Storage of Surface Waters, accepts responsibility for operation and maintenance of the system. The permit may not be transferred to such an approved operation and maintenance entity until the operation phase of the permit becomes effective. Following inspection and approval of the permitted system by the District, the permittee shall request transfer of the permit to the responsible approved operation

and maintenance entity, if different from the permittee. Until the permit is transferred pursuant to section 7.1 of the Applicant's Handbook: Management and Storage of Surface Waters, the permittee shall be liable for compliance with the terms of the permit.

- 12. Should any other regulatory agency require changes to the permitted system, the permittee shall provide written notification to the District of the changes prior implementation so that a determination can be made whether a permit modification is required.
- 13. This permit does not eliminate the necessity to obtain any required federal, state, local and special district authorizations prior to the start of any activity approved by this permit. This permit does not convey to the permittee or create in the permittee any property right, or any interest in real property, nor does it authorize any entrance upon or activities on property which is not owned or controlled by the permittee, or convey any rights or privileges other than those specified in the permit and chapter 40C-4 or chapter 40C-40, F.A.C.
- 14. The permittee shall hold and save the District harmless from any and all damages, claims, or liabilities which may arise by reason of the activities authorized by the permit or any use of the permitted system.
- 15. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered specifically approved unless a specific condition of this permit or a formal determination under section 373.421(2), F.S., provides otherwise.
- 16. The permittee shall notify the District in writing within 30 days of any sale, conveyance, or other transfer of ownership or control of the permitted system or the real property at which the permitted system is located. All transfers of ownership or transfers of a permit are subject to the requirements of section 40C-1.612, F.A.C. The permittee transferring the permit shall remain liable for any corrective actions that may be required as a result of any permit violations prior to such sale, conveyance or other transfer.
- 17. Upon reasonable notice to the permittee, District authorized staff with proper identification shall have permission to enter, inspect, sample and test the system to insure conformity with the plans and specifications approved by the permit.
- 18. If historical or archaeological artifacts are discovered at any time on the project site, the permittee shall immediately notify the District.

- 19. The permittee shall immediately notify the District in writing of any previously submitted information that is later discovered to be inaccurate.
- 20. This permit for construction will expire five years from the date of issuance.
- 21. All wetland areas or water bodies that are outside the specific limits of construction authorized by this permit must be protected from erosion, silitation, scouring or excess turbidity, and dewatering.
- 22. Prior to construction, the permittee must clearly designate the limits of construction on-site. The permittee must advise the contractor that any work outside the limits of construction, including cleaning, may be a violation of this permit.
- 23. The proposed surface water management system must be constructed and operated in accordance with the plans signed and sealed by the engineer on April 9, 2001 and received by the District on April 10, 2001.

Notice Of Rights

- 1. A person whose substantial interests are or may be determined has the right to request an administrative hearing by filing a written petition with the St. Johns River Water Management District (District), or may choose to pursue mediation as an alternative remedy under Sections 120.569 and 120.573, Florida Statutes, before the deadline for filing a petition. Choosing mediation will not adversely affect the rights to a hearing if mediation does not result in a settlement. The procedures for pursuing mediation are set forth in Sections120.569 and 120.57, Florida Statutes, and Rules 28-106.111 and 28-106.401-.405, Florida Administrative Code. Pursuant to Chapter 28-106 and Rule 40C-1.1007, Florida Administrative Code, the petition must be filed at the office of the District Clerk at District Headquarters, P. O. Box 1429, Palatka, Florida 32178-1429 (4049 Reid St., Palatka, FL 32177) within twenty-six (26) days of the District depositing notice of District decision in the mail (for those persons to whom the District mails actual notice) or within twenty-one (21) days of newspaper publication of the notice of District decision (for those persons to whom the District does not mail actual notice). A petition must comply with Chapter 28-106, Florida Administrative Code.
- 2. If the Governing Board takes action which substantially differs from the notice of District decision, a person whose substantial interests are or may be determined has the right to request an administrative hearing or may choose to pursue mediation as an alternative remedy as described above. Pursuant to District Rule 40C-1.1007, Florida Administrative Code, the petition must be filed at the office of the District Clerk at the address described above, within twenty-six (26) days of the District depositing notice of final District decision in the mail (for those persons to whom the District mails actual notice) or within twenty-one (21) days of newspaper publication of the notice of its final agency action (for those persons to whom the District does not mail actual notice).
 Such a petition must comply with Rule Chapter 28-106, Florida Administrative Code.
- 3. A substantially interested person has the right to a formal administrative hearing pursuant to Section 120.569 and 120.57(1), Florida Statutes, where there is a dispute between the District and the party regarding an issue of material fact. A petition for formal hearing must comply with the requirements set forth in Rule 28-106.201, Florida Administrative Code.
- 4. A substantially interested person has the right to an informal hearing pursuant to Sections 120.569 and 120.57(2), Florida Statutes, where no material facts are in dispute. A petition for an informal hearing must comply with the requirements set forth in Rule 28-106.301, Florida Administrative Code.
- 5. A petition for an administrative hearing is deemed filed upon delivery of the petition to the District Clerk at the District headquarters in Palatka, Florida.
- 6. Failure to file a petition for an administrative hearing, within the requisite time frame shall constitute a waiver of the right to an administrative hearing (Section 28-106.111, Florida Administrative Code).
- 7. The right to an administrative hearing and the relevant procedures to be followed are governed by Chapter 120, Florida Statutes, and Chapter 28-106, Florida Administrative Code and Section 40C-1.1007, Florida Administrative Code.

Notice Of Rights

- 8. An applicant with a legal or equitable interest in real property who believes that a District permitting action is unreasonable or will unfairly burden the use of his property, has the right to, within 30 days of receipt of notice of the District's written desision regarding a permit application, apply for a special master proceeding under Section 70.51, Florida Statutes, by filing a written request for relief at the office of the District Clerk located at District headquarters, P. O. Box 1429, Palatka, FL 32178-1429 (4049 Reid St., Palatka, Florida 32177). A request for relief must contain the information listed in Subsection 70.51(6), Florida Statutes.
- 9. A timely filed request for relief under Section 70.51, Florida Statutes, tolls the time to request an administrative hearing under paragraph no. 1 or 2 above (Paragraph 70.51(10)(b), Florida Statutes). However, the filing of a request for an administrative hearing under paragraph no. 1 or 2 above waives the right to a special master proceeding (Subsection 70.51(10)(b), Florida Statutes).
- 10. Failure to file a request for relief within the requisite time frame shall constitute a waiver of the right to a special master proceeding (Subsection 70.51(3), Florida Statutes).
- 11. Any substantially affected person who claims that final action of the District constitutes an unconstitutional taking of property without just compensation may seek review of the action in circuit court pursuant to Section 373.617, Florida Statutes, and the Florida Rules of Civil Procedures, by filing an action in circuit court within 90 days of the rendering of the final District action, (Section 373.617, Florida Statutes).
- 12. Pursuant to Section 120.68, Florida Statutes, a person who is adversely affected by final District action may seek review of the action in the District Court of Appeal by filing a notice of appeal pursuant to the Florida Rules of Appellate Procedure within 30 days of the rendering of the final District action.
- 13. A party to the proceeding before the District who claims that a District order is inconsistent with the provisions and purposes of Chapter 373, Florida Statutes, may seek review of the order pursuant to Section 373.114, Florida Statutes, by the Florida Land and Water Adjudicatory Commission, by filing a request for review with the Commission and serving a copy on the Department of Environmental Protection and any person named in the order within 20 days of adoption of a rule or the rendering of the District order.
- 14. For appeals to the District Court of Appeal, a District action is considered rendered after it is signed on behalf of the District, and is filed by the District Clerk.
- 15. Failure to observe the relevant time frames for filing a petition for judicial review described in paragraphs #11 and #12, or for Commission review as described in paragraph #13, will result in waiver of that right to review.

Notice Of Rights

Certificate of Service

I HEREBY CERTIFY that a copy of the foregoing Notice of Rights has been sent by U.S. Mail to:

Lennar Land Partners 1110 Douglas Ave Altamonte Springs, FL 32714

at 4:00 p.m. this 9th day of May, 2001.

Vivision of Permit Data Services
Gloria Lewis, Director

St. Johns River Water Management District Post Office Box 1429 Palatka, FL 32178-1429 (904) 329-4152

Permit Number: 40-069-19411-13



April 11, 2000

Lennar Land Partners ATTN: Robert Ahrens 7600 Nob Hill Tamarac, FL 33321

POST OFFICE BOX 1429

TELEPHONE 904-329-4500

FAX (Executive) 329-4125

TDD 904-329-4450 (Legal) 329-4485

PALATKA, FLORIDA 32178-1429

SUNCOM 904-860-4500 1-800-451-7106

TDD SUNCOM 860-4450

(Permitting) 329-4315 (Administration/Finance) 329-4508

SERVICE CENTERS

618 E. South Stree 407-897-4300 1-877-228-1658 FAX 407-897-4354 TDD 407-897-5960

Suite 102 904-730-6270 1-800-852-1563 FAX 904-730-6267 TDD 904-448-7900 PERMITTING: 305 East Drive Melbourne, Florida 32904 407-984-4940 1-800-295-3264 FAX 407-722-5357 TDD 407-722-5368

OPERATIONS: 2133 N. Wickham Road Melbourns, Florida 32935-8109 407-752-3100 TDD 407-752-3102

Dear Sir:

Enclosed is your permit as authorized by the Governing Board of the St. Johns River Water Management District on April 11, 2000.

SUBJECT: Management and Storage of Surface Waters Individual Permit Number 4-069-0326M9-ERP

This permit is a legal document and should be kept with your other important documents. The attached MSSW/Stormwater As-Built Certification Form should be filled in and returned to the Palatka office within thirty days after the work is completed. By so doing, you will enable us to schedule a prompt inspection of the permitted activity.

In addition to the MSSW/Stormwater As-Built Certification Form, your permit also contains conditions which require submittal of additional information. All information submitted as compliance to permit conditions must be submitted to the Palatka office address.

Permit issuance does not relieve you from the responsibility of obtaining permits from any federal, state and/or local agencies asserting concurrent jurisdiction for this work.

In the event you sell your property, the permit will be transferred to the new owner, if we are notified by you within thirty days of the sale. Please assist us in this matter so as to maintain a valid permit for the new property owner.

Thank you for your cooperation and if this office can be of any further assistance to you, please do not hesitate to contact us.

Sincerely.

Quen Johnson, 'Data Control Technician

Permit Data Services Division

Enclosures: Permit with EN form(s), if applicable

cc: District Permit File

Farner Barley & Associates Inc.

ATTN: Duane K. Booth, PE, 350 North Sinclair Avenue, Tavares, FL, 32778

William Kerr, CHAIRMAN MELBOURNE BEACH Dan Roach

ERNANDINA BEACH

Ometrias D. Long, VICE CHAIRMAN

Jeff K. Jennings, SECRETARY MAITLAND

Duane Ottenstroer, TREASURER SWITZERLAND

Clay Albright EAST LAKE WEIR

Reid Hughes DAYTONA BEACH

Otis Mason ST ALIGHISTINE

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT Post Office Box 1429 Palatka, Florida 32178-1429

PERMIT NO. 4-069-0326M9-ERP,

DATE ISSUED April 11, 2000

A PERMIT AUTHORIZING:

This permit is for the construction of a surface water management system consisting of mass grading for a future golf course residential community, including construction of two lined wet retention ponds, and nine dry retention ponds in 228.80 acres of area known as Kings Ridge North.

LOCATION:

Section(s) 4,

Township 23 South,

Range 26 East

COUNTY:

Lake

ISSUED TO:

(owner)

Lennar Land Partners

7600 Nob Hill

Tamarac, FL 33321

Permittee agrees to hold and save the St. Johns River Water Management District and its successors harmless from any and all damages, claims, or liabilities which may arise from permit issuance. Said application, including all plans and specifications attached thereto, is by reference made a part hereof.

This permit does not convey to permittee any property rights nor any rights or privileges other than those specified herein, nor relieve the permittee from complying with any law, regulation or requirement affecting the rights of other bodies or agencies. All structures and works installed by permittee hereunder shall remain the property of the permittee.

This Permit may be revoked, modified or transferred at any time pursuant to the appropriate provisions of Chapter 373, Florida Statutes:

PERMIT IS CONDITIONED UPON:

See conditions on attached "Exhibit A", dated April 11, 2000

AUTHORIZED BY: St. Johns River Water Management District

Department of Resource Management Governing Board

By: 177/1 \(\frac{1}{2}\) (DIRECTOR)

JEFF ELLEDGE

By:_

(ASSISTANT SECRETARY)

HENRY DEAN

"EXHIBIT A" Lennar Land Partners April 11, 2000 4-069-0326M9-ERP

- 1. All activities shall be implemented as set forth in the plans, specifications and performance criteria as approved by this permit. Any deviation from the permitted activities and the conditions for undertaking that activity shall constitute a violation of this permit.
- 2. This permit or a copy thereof, complete with all conditions, attachments, exhibits, and modifications, shall be kept at the work site of the permitted activity. The complete permit shall be available for review at the work site upon request by District staff. The permittee shall require the contractor to review the complete permit prior to commencement of the activity authorized by this permit.
- 3. Activities approved by this permit shall be conducted in a manner, which do not cause violations of state water quality standards.
- 4. Prior to and during construction, the permittee shall implement and maintain all erosion and sediment control measures (best management practices) required to retain sediment on-site and to prevent violations of state water quality standards. All practices must be in accordance with the guidelines and specifications in Chapter 6 of the Florida Land Development Manual: A Guide to Sound Land and Water Management (Florida Department of Environmental Regulation 1988), which are incorporated by reference, unless a project specific erosion and sediment control plan is approved as part of the permit, in which case the practices must be in accordance with the plan. If site specific conditions require additional measures during any phase of construction or operation to prevent erosion or control sediment, beyond those specified in the erosion and sediment control plan, the permittee shall implement additional best management practices as necessary, in accordance with the specifications in Chapter 6 of the Florida Land Development Manual: A Guide To Sound Land and Water Management (Florida Department of Environmental Regulation 1988). The permittee shall correct any erosion or shoaling that causes adverse impacts to the water resources.
- 5. Stabilization measures shall be initiated for erosion and sediment control on disturbed areas as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 7 days after the construction activity in that portion of the site has temporarily or permanently ceased.
- 6. At least 48 hours prior to commencement of activity authorized by this permit, the permittee shall submit to the District a Construction Commencement Notice Form No. 40C-4.900(3) indicating the actual start date and the expected completion date.
- 7. When the duration of construction will exceed one year, the permittee shall submit construction status reports to the District on an annual basis utilizing an annual Status Report Form No. 40C-4.900(4). These forms shall be submitted during June of each year.

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- For those systems which will be operated or maintained by an entity which will require an 8. easement or deed restriction in order to provide that entity with the authority necessary to operate or maintain the system, such easement or deed restriction, together with any other final operation or maintenance documents as are required by Subsections 7.1.1. through 7.1.4 of the Applicant's Handbook: Management and Storage of Surface Waters, must be submitted to the District for approval. Documents meeting the requirements set forth in these Subsections of the Applicants Handbook will be approved. Deed restrictions, easements and other operation and maintenance documents which require recordation either with the Secretary of State or the Clerk of the Circuit Court must be so recorded prior to lot or unit sales within the project served by the system, or upon completion of construction of the system, whichever occurs first. For those systems which are proposed to be maintained by county or municipal entities, final operation and maintenance documents must be received by the District when maintenance operation of the system is accepted by the local governmental entity. Failure to submit the appropriate final documents referenced in this paragraph will result in the permittee remaining liable for carrying out maintenance and operation of the permitted system.
- 9. Each phase or independent portion of the permitted system must be completed in accordance with the permitted plans and permit conditions prior to the initiation of the permitted use of site infrastructure located within the area served by that portion or phase of the system. Each phase or independent portion of the system must be completed in accordance with the permitted plans and permit conditions prior to transfer of responsibility for operation and maintenance of that phase or portion of the system to a local government.
- 10. Within 30 days after completion of construction of the permitted system, or independent portion of the system, the certification by a registered professional engineer or other appropriate individual as authorized by law, utilizing As-Built Certification Form 40C-1.81(13) or 40C-1.181(14) supplied with this permit. When the completed system differs substantially from the permitted plans, any substantial deviations shall be noted and explained and two copies of as-built drawings submitted to the District. Submittal of the completed form shall serve to notify the District that the system is ready for inspection. Statement of completion and certification shall be based on the on-site observation of construction (conducted by the registered professional engineer, or other appropriate individual as authorized by law, or under his her direct supervision) or review of as-built drawings for the purpose of determining if the work was completed in compliance with approved plans and specifications. As-built drawings shall be the permitted drawings revised to reflect any changes made during construction. Both the original and any revised specifications must be clearly shown. The plans must be clearly labeled as "as-built" or "record" drawing. All surveyed dimensions and elevations shall be certified by a registered surveyor. The following information, at a minimum, shall be certified on the as-built drawings:
 - A. Dimensions and elevations of all discharge structures including all weirs, slots, gates, pumps, pipes, and oil and grease skimmers;
 - B. Locations, dimensions, and elevations of all filter, exfiltation, or underdrain systems including cleanouts, pipes, connections to control structures, and points of discharge to the receiving waters;

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- C. Dimensions, elevations, contours, or cross-sections of all treatment storage areas sufficient to determine stage-storage relationships of the storage area and the permanent pool depth and volume below the control elevation for normally wet systems, when appropriate;
- D. Dimensions, elevations, contours, final grades, or cross-sections of the system to determine flow directors and conveyance of runoff to the treatment system.
- E. Dimensions, elevations, contours, final grades, or cross-sections of all conveyance systems utilized to convey off-site runoff around the system;

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- F. Existing water elevations(s) and the date determined; and
- G. Elevation and location of benchmark(s) for the survey.
- 11. The operation phase of this permit shall not become effective until the permittee has complied with the requirements of general condition no. 9 above, the District determines the system to be in compliance with the permitted plans, and the entity approved by the District in accordance with Subsections 7.1.1. through 7.1.4 of the Applicants Handbook: Management and Storage of Surface Waters, accepts responsibility for operation and maintenance of the system. The permit may not be transferred to such an approved operation and maintenance entity until the operation phase of the permit become effective. Following inspection and approval of the permitted system by the District, the permittee shall request transfer of the permit to the responsible approved operation and maintenance entity, if different from the permittee. Until the permit is transferred pursuant to Section 7.1 of the Applicants Handbook: Management and Storage of Surface Waters, the permittee shall be liable for compliance with the terms of the permit.
- 12. Should any other regulatory agency require changes to the permitted system, the permittee shall provide written notification to the District of the changes prior to implementation so that a determination can be made whether a permit modification is required.
- This permit does not eliminate the necessity to obtain any required federal, state, local and special district authorizations prior to the start of any activity approved by this permit. This permit does not convey to the permittee or create in the permittee any property right, or any interest in real property, nor does it authorize any entrance upon or activities on property which is not owned or controlled by the permittee, or convey any rights or privileges other than those specified in the permit and Chapter 40C-4 or Chapter 40C-40, F.A.C.
- The permittee shall hold and save the District harmless from any and all damages, claims, or liabilities which may arise by reason of the activities authorized by the permit or any use of the permitted system.

15. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered specifically approved unless a specific condition of this permit or a formal determination under Section 373.421(2), F.S., provides otherwise.

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- 16. The permittee shall notify the District in writing within 30 days of any sale, conveyance, or other transfer or ownership or control of the permitted system or the real property at which the permitted system is located. All transfers of ownership or transfers of a permit are subject to the requirements of Section 40C-1.612, F.A.C. The permittee transferring the permit shall remain liable for any corrective actions that may be required as a result of any permit violations prior to the sale conveyance or other transfer.
- 17. Upon reasonable notice to the permittee, District authorized staff with proper identification shall have permission to enter, inspect, sample and test the system to insure conformity with the plans and specifications approved by the permit.
- 18. If historical or archeological artifacts are discovered at any time on the project site, the permittee shall immediately notify the District.
- 19. The permittee shall immediately notify the District in writing of any previously submitted information that is later discovered to be inaccurate.
- 20. This permit for construction will expire five years from the date of issuance.
- 21. At a minimum, all retention and detention storage areas must be excavated to rough grade prior to building construction or placement of impervious surface within the area to be served by those facilities. To prevent reduction in storage volume and percolation rates, all accumulated sediment must be removed from the storage area prior to final grading and stabilization.
- All wetland areas or water bodies that are outside the specific limits of construction authorized by this permit must be protected from erosion, siltation, scouring or excess turbidity, and dewatering.
- 23. Prior to construction, the permittee must clearly designate the limits of construction on-site. The permittee must advise the contractor that any work outside the limits of construction, including clearing, may be a violation of this permit.
- Within 90 days of permit issuance, the Permittee must obtain District approval of a site specific, integrated Pesticides Management Plan. The management plan must specify the usage of non-chemical or cultural means as the primary defense against nuisance and/or destructive pests. These non-chemical measures should include practices such as: the planting and maintenance of native vegetation where possible; the use of pest and/or disease tolerant vegetation; the proper selection and application of fertilizer: proper supplemental watering; the use of mulch for weed control, and proper maintenance practices including mowing frequency, mowing height, mechanical dethatching, removal of dying or dead vegetation, etc. The plan must also include information on the following: A. Insecticides, nematicides, fungicides or herbicides to be used; B. Method(s) of application; C. Time

frames for use and application; and D. For the pesticides that will be used, specification of: - Half-lives - N-Octanol/water partition coefficient (Kow) - Lethal dose coefficient (LD50) - Solubility Any pesticides selected must exhibit a short half-life (<10 weeks), a low n-octanol/water coefficient (<5.0), and be suitable for use with local soils and groundwater pH conditions. The use of organchlorides and other pesticides either lised by EPA as canceled or suspended, or otherwise prohibited by state or federal law is not allowed.

- The permittee must adhere to the fertilizer recommendations set forth in the manual for commercial turf grass management by the University of Florida compiled by the Florida Turf-Grass Association. The nutrient loading attributable to the application of effluent shall be considered a source of fertilizer for the golf course and additional non-effluent fertilizer sources shall be utilized only as a supplement.
- 26. The operation and maintenance entity shall submit inspection reports to the District two years after the operation phase permit becomes effective and every two years thereafter on District form EN-46. The inspection form must be signed and sealed by an appropriate registered professional.
- 27. The proposed surface water management system must be constructed as per the plans received by the District on January 24, 2000.
- 28. This permit does not authorize construction of any impervious surface, or any other work not shown on the plans referenced above.
- 29. The permittee may obtain a Standard General Environmental Resource Permit (ERP) for future phases of the King Ridge North when the phase is consistent with this permit and does not exceed the thresholds pursuant to 40C-40.302(2), F.A.C. If a phase exceeds the thresholds pursuant to 40C-40.302 (2), F.A.C. or if a phase is inconsistent with this permit, the permittee must obtain a modification to this permit.

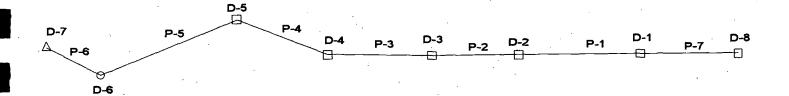
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- 30. The operation and maintenance entity must maintain the retention pond in the surface water management system as per the maintenance plan developed by the design professional.
- 31. Contained within the as-built report, the permittee must submit a soil analysis of the base of retention ponds verifying that the design permeability rates are provided for each phase of the construction. If the design permeability rates cannot be verified, the permittee must obtain a modification of this permit demonstrating that the design criteria and objectives of Chapter 40C-4,F.A.C. are met.
- 32. The operation and maintenance entity shall submit inspection reports to the District one year after the operation phase permit becomes effective and every year thereafter on District form EN-46 for each phase of the construction. The inspection form must be signed and sealed by an appropriate registered professional, and must include the results of permeability tests of the base of the retention ponds verifying that the design permeabilities are met. After three consecutive inspection reports confirm the design permeabilities for a phase of the construction, the entity will no longer be required to submit permeability test results and the inspection report requirement shall be amended to every two years for the said phase. If the design permeability rates cannot be verified, the permittee must obtain a modification to the permit demonstrating that the design criteria of Chapter 40C-4 F.A.C. are met.

STORM SEWER SYSTEM ANALYSIS BASIN 14



DOT Report

-Node- Upstream Downstream	Length (ft)	Inlet Area (acres)	Inlet C	Total CA (acres)	Inlet TC (min)	System Flow Time (min)	Inlet Discharge (cfs)	-Ground- Upstream Downstream (ft)	-HGL- Upstream Downstream (ft)	-Slope- Energy Constructed (ft/ft)	Section Size	-Section- Discharge Capacity (cfs)	Downstream Invert Elevation (ft)	Upstream Invert Elevation (ft)	Average Velocity (ft/s)
D.º	242.00	0.72	0.60	0.43	10.00	10.00	3.38	179.49	175.20	0.011660	18 inch	3.38	171.60	174.50	3.60
D-8	242.00	0.72	0.00	0.40				176.64	172.51	0.011983		11.50			
D-1	202.00	0.14	0.65	0.52	10.00	11.12	0.71	176.64	172.36	0.009782	18 inch	3.93	169.45	171.60	3.60
D-1	202.00	0.14	0.05	0.02				174.45	170.56	0.010644		10.84	·		
D-2	152.00	0.39	0.65	0.78	10.00	12.06	1.98	174.45	170.37	0.008783	18 inch	5.64	167.92	169.45	4.21
D-2	152.00		0.03	0.70	10.00	, _,,		172.74	169.23	0.010066		10.54			
D-3	248.00	0.45	0.65	1.07	10.00	12.66	2.29		168.99	0.022152	18 inch	7.59	162.00	167.92	7.34
D-3	240.00	0.43	0.00		10.00	,_,,		166.04	162.72	0.023871		16.23].	l
D-4	104.00	0.65	0.65	1.49	10.00	13.22	3.30	166.04	157.24	0.016824	18 inch	10.36	153.92	156.00	6.25
D-4	104.00	0.03	0.00	10	10.50			161.75	155.64	0.020000		14.85		}	
D-5	160.00	0.58	0.60	1.84	10.00	13.50	2.72	161.75	155.20	0.029840	24 inch	12.64	148.00	153.92	8.98
D-5	160.00	0.56	0.00	1.54	.3.00			160.50	148.74	0.037000		43.51			i i
D-6	77.00	N/A	N/A	1,84	N/A	13.80	N/A	160.50	146.04	0.004439	24 inch	12.49	144.00	144.77	4.95
D-6 D-7	17.00	'*^	'*^	1.04	'*'			151.00	146.00	0.010000		22.62	_		

Combined Pipe/Node Report

Pipe	Upstream Node	Downstream Node	Length (ft)	inlet Area (acres)	Inlet C	inlet CA (acres)	Total CA (acres)	Inlet Discharge (cfs)	Section Size	Capacity (cfs)	Average Velocity (ft/s)	Upstream Invert Elevation (ft)	Downstream Invert Elevation (ft)	Constructed Slope (ft/ft)	Inlet TC (min)	Section Material
		D-1	242.00	0.72	0.60	0.43	0.43	3.38	18 inch	11.50	3.60	174.50	171.60	0.011983	10.00	Concrete
P-7			202.00		0.65		0.52		18 inch	10.84	3.60	171.60	169.45	0.010644	10.00	Concrete
P-1	1	D-2		1 1			0.78		18 Inch	10.54	4.21	169.45	167.92	0.010066	10.00	Concrete
P-2	D-2	D-3	152.00	0.39	0.65						•	167.92	162.00	0.023871	10.00	Concrete
P-3	l D-3	D-4	248.00	0.45	0.65	0.29	1.07	2.29	18 inch	16.23	7.34		•		, ;	
P-4	i -	D-5	104.00	0.65	0.65	0.42	1.49	3.30	18 inch	14.85	6.25	156.00	153.92	0.020000	10.00	Concrete
1	ŧ -	1	1 '	1	0.60		1		24 inch	43.51	8.98	153,92	148.00	0.037000	10.00	Concrete
P-5	D-5	D-6	160.00	0.58	0.60								144.00	0.010000	NI/A	Concrete
P-6	D-6	D-7	77.00	N/A	N/A	N/A	1.84	N/A	24 inch	22.62	4.95	144.77	144.00	0.010000	IVA	Concrete

Combined Pipe/Node Report

Pipe	Upstream Node	Downstream Node	Length (ft)	Inlet Area (acres)	inlet C	Inlet CA (acres)	Total CA (acres)	Discharge	Section Size	Capacity (cfs)	Average Velocity (ft/s)	Upstream Invert Elevation (ft)	Downstream Invert Elevation (ft)	Constructed Slope (ft/ft)	Inlet TC (min)	Section Material
P-7	D-8	D-1	242.00	0.72	0.60	0.43	0.43	1.74	18 inch	11.50	2.89	174.50	171.60	0.011983	10.00	Concrete
P-1	D-1	D-2	202.00		0.65	0.09	0.52	0.37	18 inch	10.84	2.90	171.60	169.45	0.010644	10.00	Concrete
P-2		D-3	152.00	1 1	0.65	0.25	0.78	1.02	18 inch	10.54	3.35	169.45	167.92	0.010066	10.00	Concrete
i	D-3	D-4	248.00	0.45	0.65	0.29	1.07	1.18	18 inch	16.23	6.14	167.92	162.00	0.023871	10.00	Concrete
1 -	D-4	D-5	104.00	l f	0.65	0.42	1.49	1.70	18 inch	14.85	4.44	156.00	153.92	0.020000	10.00	Concrete
P-5	1 -	D-6	160.00	0.58	0.60	0.35	1.84	1.40	24 inch	43.51	7.63	153.92	148.00	0.037000		Concrete
	D-6	D-7	77.00	N/A	N/A	N/A	1.84	N/A	24 inch	22.62	3.08	144.77	144.00	0.010000	N/A	Concrete

F.D.O.T. 4" INTENSITY

DOT Report

-Node- Upstream Downstream	Length (ft)	Inlet Area (acres)	Inlet C	Total CA (acres)	Inlet TC (min)	System Flow Time (min)	Inlet Discharge (cfs)	-Ground- Upstream Downstream (ft)	-HGL- Upstream Downstream (ft)	-Slope- Energy Constructed (ft/ft)	Section Size	-Section- Discharge Capacity (cfs)	Downstream Invert Elevation (ft)	Upstream Invert Elevation (ft)	Average Velocity (ft/s)
D-8	242.00	0.72	0.60	0.43	10.00	10.00	1.74	179.49	175.00	0.011736	18 inch	1.74	171.60	174.50	2.89
D-1								176.64	172.25	0.011983		11.50		1	ŀ
D-1	202.00	0.14	0.65	0.52	10.00	11.39	0.37	176.64	172.15	0.010017	18 inch	2.11	169.45	171.60	2.90
D-2								174.45	170.25	0.010644		10.84	1		
D-2	152.00	0.39	0.65	0.78	10.00	12.55	1.02	174.45	170.12	0.009196	18 inch	3.13	167.92	169.45	3.35
D-3							1	172.74	168.88	0.010066		10.54			
D-3	248.00	0.45	0.65	1:07	10.00	13.31	1.18	172.74	168.72	0.022459	18 Inch	4.31	162.00	167.92	6.14
D-4								166.04	162.53	0.023871		16.23	1		
D-4	104.00	0.65	0.65	1.49	10.00	13.98	1.70	166.04	156.95	0.018687	18 inch	6.01	153.92	156.00	4.44
D-5		İ						161.75	155,19	0.020000		14.85	1		
D-5	160.00	0.58	0.60	1.84	10.00	14.37	1.40	161.75	154.89	0.031540	24 inch	7.42	148.00	153.92	7.63
D-6		,						160.50	148.56	0.037000	·	43.51	1		1.
D-6	77.00	N/A	N/A	1.84	. N/A	14.72	N/A	160.50	145.96	0.001308	24 inch	7.42	144.00	144.77	3.08
D-7			ļ					151.00	146.00	0.010000		22.62			

F.O.O.T. 4" INTENSITY

TOTAL DISCHARGE, CFS ABERDEEN PHASE III 50' RIGHT-OF-WAY

Manning's Equation:

Q = 1.486 x A x R^2/3 x S^1/2 / n

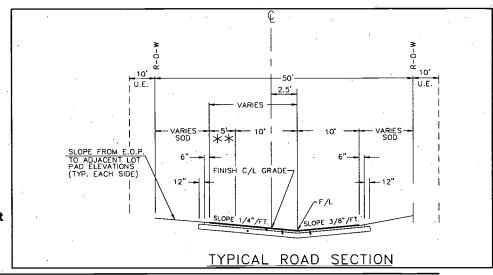
Where; S = Roadway Slope, %

A = Section Area, sq.ft

Q = Gutter flow rate, in ft^3/sec

R = Hydraulic Radius, sq. ft.

n = Manning's roughness coefficient



	Width Area R			Manning's n Values		
Section	(ft)	(sq. ft.)	(ft)	'n	Type of Gutter Pavement	
Roadway	10.00	0.740	0.074	0.016	Asphalt Pavement - Rough texture	

Slope	Roadway		Slope	Roadway		Slope	Roadway
%	(cfs)		%	(cfs)		%	(cfs)
0.50%	0.856	•	1.35%	1.407	_	2.20%	1.796
0.55%	0.898		1.40%	1.433	•	2.25%	1.817
0.60%	0.938		1.45%	1.458		2.30%	1.837
0.65%	0.976		1.50%	1.483		2.35%	1.857
0.70%	1.013		1.55%	1.508		2.40%	1.876
0.75%	1.049	,	1.60%	1.532		2.45%	1.896
0.80%	1.083		1.65%	1.556	•	2.50%	1.915
0.85%	1.117		1.70%	1.579		2.55%	1.934
0.90%	1.149	•	1.75%	1.602		2.60%	1.953
0.95%	1.180		1.80%	1.625		2.65%	1.972
1.00%	1.211		1.85%	1.647		2.70%	1.990
1.05%	1.241		1.90%	1.669		2.75%	2.008
1.10%	1.270		1.95%	1.691		2.80%	2.027
1.15%	1.299		2.00%	1.713		2.85%	2.045
1.20%	1.327		2.05%	1.734		2.90%	2.063
1.25%	1.354		2.10%	1.755		2.95%	2.080
1.30%	1.381		2.15%	1.776		3.00%	2.098

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